

Patriot GearBox
Network Storage Adaptor



NAS (Network Attached Storage) Adaptor

Applied Model No.:

PCNASGB-W
PCNASGB-BK
PCNASGB-W-EU
PCNASGB-BK-EU
PCNASGB-W-UK
PCNASGB-BK-UK

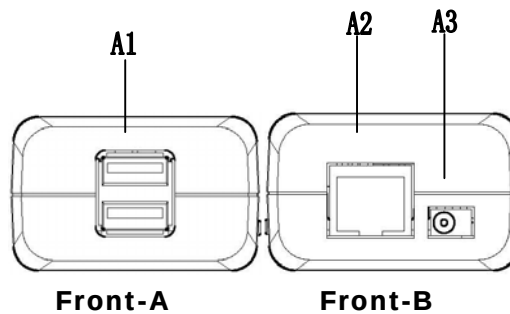
User Guide

Description

Features:

- ◎Support 10/100 M/bps
- ◎Support Windows/Linux
- ◎Support Protocol : TCP/IP, HTTP
- ◎Chipset : RDC
- ◎Support Data Format : FAT32, EXT2, EXT3
- ◎Support Function: FTP/DHCP /SAMBA / UPnP Media server/ PRINTER SERVER
- ◎Support BT download management
- ◎Included Disk Utility: Format Disk, Scan Disk, and Disk hibernation mode.
- ◎Support Administration Password control.
- ◎Support USB external HDD and Printers
- ◎Power Adapter: Input:AC:100~240V 50/60Hz, 0.3A Output :DC 5V/2A

--- Front Panel ---

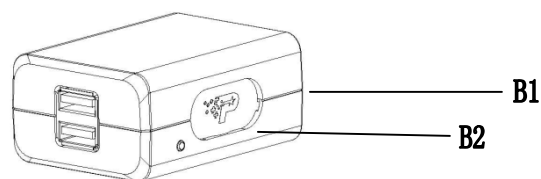


A1) 2 x USB 2.0

A2) LAN Port (connect to your router)

A3) AC Power Plug (AC 110~240V 50/60Hz, DC 5V, 2A only)

--- Rear View ---



B1) LED power indicator

B2) Device RESET switch

Package Contents:

- 1 x GearBox NAS Adaptor
- 1 x USB Data cable
- 1 x USB Printer cable
- 1 x RJ45 Network Cable
- 1 x AC Adapter
- 1 x Installation CD include disk search utility and manual

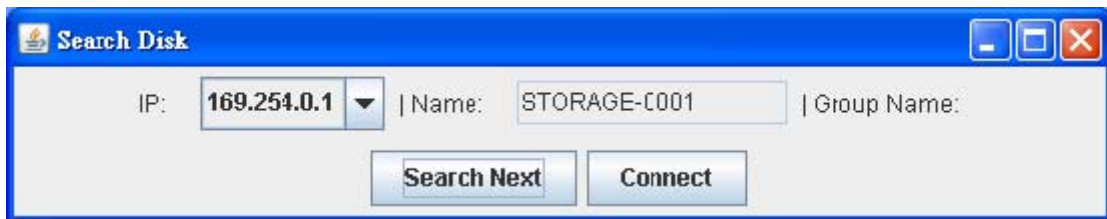
Patriot GearBox

Network Storage Adaptor

1. Getting Started

To access your GearBox, please insert the CD and run "Search Disk" Utility. Note: JRE(Java Runtime Environment) must be installed on the PC. If you do not have JRE installed, please download from <http://www.java.com>

Execute "**Search Disk**" Utility and click on "Search Next".



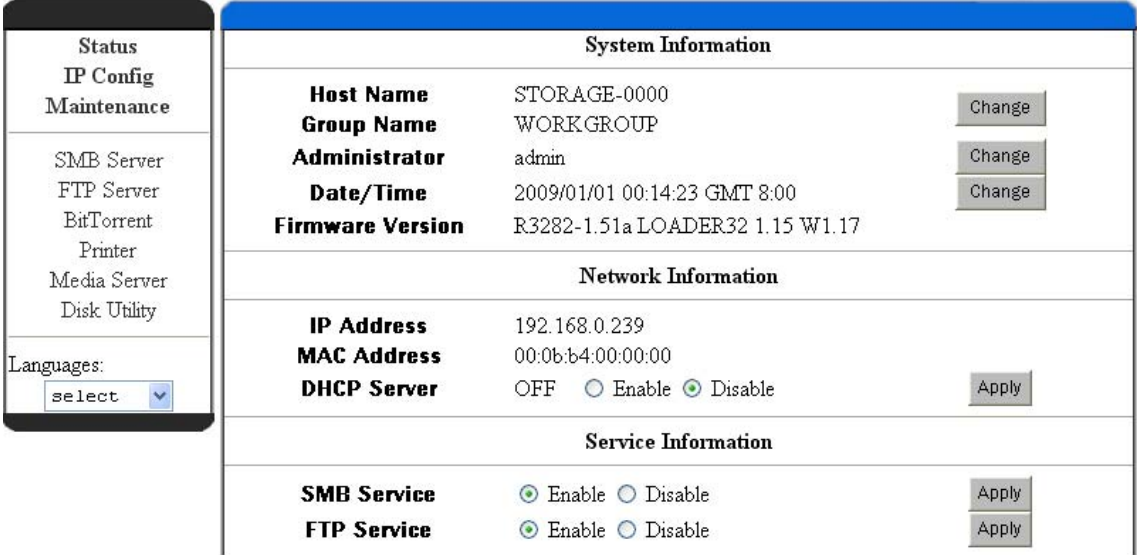
"IP" should be filled automatically if **your network has DHCP server**: Gearbox should be assigned with an IP address by the router. If your network **does not have DHCP server**, GearBox becomes a DHCP server itself. Storage **default IP is 169.254.0.1**. As soon as you click on "**Connect**" you will be prompt with a window's log in screen. Enter the Default user name and password and proceed to the WEB UI



Default user name: **admin**

Default password: **admin**

2. WEB UI (User Interface)



The screenshot shows the web interface of the Patriot GearBox Network Storage Adaptor. On the left is a sidebar menu with options: Status, IP Config, Maintenance, SMB Server, FTP Server, BitTorrent, Printer, Media Server, and Disk Utility. Below the menu is a 'Languages' dropdown set to 'select'. The main content area is titled 'System Information' and is divided into three sections: System Information, Network Information, and Service Information. The System Information section includes fields for Host Name (STORAGE-0000), Group Name (WORKGROUP), Administrator (admin), Date/Time (2009/01/01 00:14:23 GMT 8:00), and Firmware Version (R3282-1.51a LOADER32 1.15 W1.17), each with a 'Change' button. The Network Information section includes IP Address (192.168.0.239), MAC Address (00:0b:b4:00:00:00), and DHCP Server (OFF), with 'Enable' and 'Disable' radio buttons and an 'Apply' button. The Service Information section includes SMB Service and FTP Service, each with 'Enable' and 'Disable' radio buttons and an 'Apply' button. At the bottom, it says 'All Rights Reserved, 2009' and features the 'PATRIOT' logo.

System Information	
Host Name	STORAGE-0000 Change
Group Name	WORKGROUP Change
Administrator	admin Change
Date/Time	2009/01/01 00:14:23 GMT 8:00 Change
Firmware Version	R3282-1.51a LOADER32 1.15 W1.17

Network Information	
IP Address	192.168.0.239
MAC Address	00:0b:b4:00:00:00
DHCP Server	OFF ☐ Enable ☒ Disable Apply

Service Information	
SMB Service	☒ Enable ☐ Disable Apply
FTP Service	☒ Enable ☐ Disable Apply

All Rights Reserved, 2009 **PATRIOT**

Status Screen

2.1 System Information

Status Page: Host Name & Group Name

To change "Host Name" & "Group Name", click on the "Status" on the left menu and then click the **"Change"** button besides "Host Name" and "Group Name".

Host Name by default is "STORAGE-XXXX" reflecting unit's MAC address for the last 4 digital xxxx.

Note: Please keep host names short (fifteen characters or less, standard uppercase and lower case letters, numbers 0 through 9 and "-". Special characters such as < > ; : " * + = \ | ? are not allowed.

Group Name: window's default workgroup value is WORKGROUP. It's recommended to use the same workgroup name as your other computer and workstations on the network.

Status Page: Administration

To change Administrator password, click on **"Change"** button besides administrator. By default, admin login is **"admin"** and **CAN'T** changed and default password is **"admin"**, enter a new password and repeat under verify password, click "OK" to save.

Patriot GearBox

Network Storage Adaptor

Date/Time

To change Date/ Time, click on “**Change**” button beside Date/Time.

Date: set manual Date (yyyy/mm/dd) **Time:** set manual Time (hh:mm:ss)

SNTP: enable/disable SNTP client

Time server: locate time server

Time Zone: Select your time zone in the list, and then click **OK**.

Daylight Saving time : If your time zone has daylight saving time

Firmware version: Display firmware and loader current version

2.1.2 Network Information

IP Address: Displays GearBox IP address

MAC Address: Display GearBox MAC address

DHCP Server: Enable / Disable DHCP server .

Note: GearBox default IP is 169.254.0.1. With DHCP disabled, GearBox will receive an IP from the router.

2.1.3 Service Information

SAMBA Service: Disable / Enable SAMBA server

FTP Service: Disable / Enable FTP server. Standard FTP port is 21. To access from outside of the network, set port 21 open and forward to GearBox's IP.

2.1.4 Disk Information

Display connected USB external drive or USB pen drive model name, drive capacity and available free space.

2.2 IP configuration

Auto IP: If DHCP server is available, GearBox will select the next available IP provided by the DHCP server (your router) If NO DHCP servers present, GearBox will assign the default IP (169.254.0.1 / 255.255.255.0 / no gateway)

Static IP: You can specify static IP setting here for your network.

2.3 Maintenance

2.3.1 Firmware Upload

To upload a new firmware version, please download the latest version from www.patriotmem.com. During upload process, please **DO NOT** turn off the power or close the web browser until process is finished..

2.3.2 System Reboot

Click the “Reboot” button to perform a restart. Your unit should be ready to use in about a minute after system boot.

2.3.3 Factory Default by reset button

Disconnect the power adaptor from the GearBox and hold the RESTE button on the side of the unit to perform a hard reset. Wait for a few seconds and connect the power back to the GearBox. Unit should restore back to factory original setting when starts.

2.4 SMB server

Samba allows access for other OS such as UNIX, Linux, IBM System 390, OpenVMS, and other operating systems. Samba uses the TCP/IP protocol that is installed on the host server. When correctly configured, it allows that host to interact with a Microsoft Windows client.

SMB server will allow user access the GearBox from various operating systems such as Microsoft Windows Vista, Apple OS X, or other Linux based OS.

2.4.1 Configure SMB Server

Create SMB share account:

Patriot GearBox

Network Storage Adaptor



Status

IP Config

Maintenance

SMB Server

FTP Server

BitTorrent

Printer

Media Server

Disk Utility

Languages:
select

SMB Server

Account List

New

Modify

En/Disable

Delete

[User Name]	[Password]	[Access]	[En/Disable]
Guest		RW	ENABLED

All Rights Reserved, 2009 **PATRIOT**

- * create SMB share account (folder) and password ,
Default Account: **guest**
Default Password: **null**

Click on “New” Button to create user name and password. You can also grant user access and enable/ disable accounts.

Modify SMB Account:

Status

IP Config

Maintenance

SMB Server

FTP Server

BitTorrent

Printer

Media Server

Disk Utility

Languages:
select

Modify SMB Account

Account Guest

Password (Max 12 Bytes)

Access ☐ Read Only ☒ Read/Write

Modify

Folder List

Create

Rename

Delete

admin

public

guest-share

BT

Sharing List

Back

PUBLIC

All Rights Reserved, 2009 **PATRIOT**

Patriot GearBox

Network Storage Adaptor

Password: password of SMB account

Access control: read only / read and write access control of SMB account folder

Folder List: is all of exist folder on storage

Sharing List: is share folder of SMB account. If you want to share some folder, select this folder from Folder List and add to Sharing List.

Folder manage: create / rename /delete folder

Enable/ Disable: this button can enable/disable SMB account

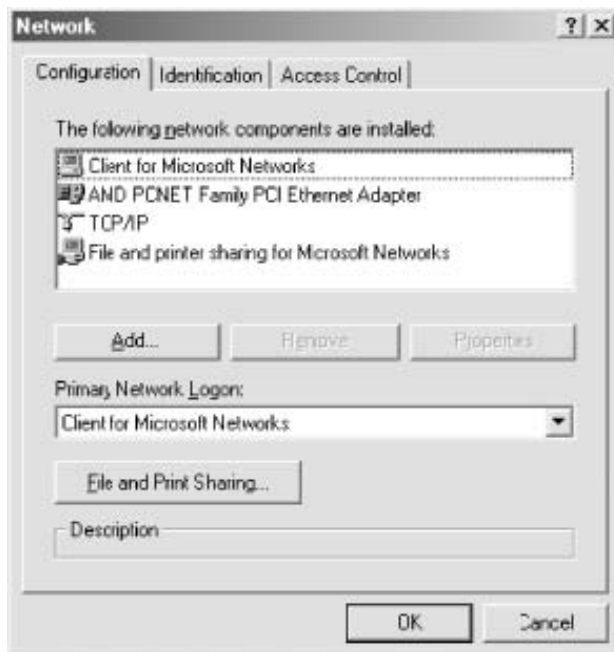
Delete: delete SMB account

2.4.2 Setting up Windows 95/98/Me Computers

Add "File and printer sharing for Microsoft Networks,"

Samba uses TCP/IP to communicate with clients on the network, so make sure there is TCP/IP protocol installed on your windows based systems.

To install or verify, double-click the "Network" icon in Control Panel. Once open a network dialog box will appear as shown in bellow:

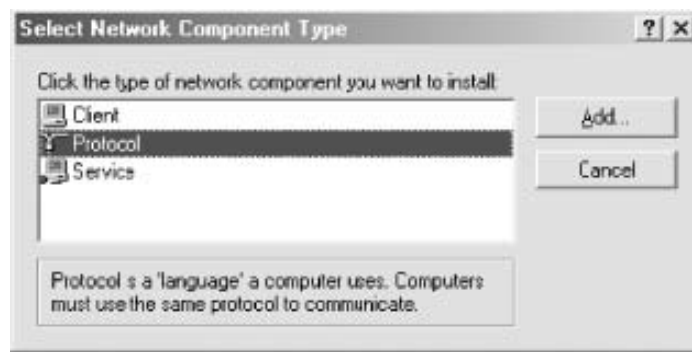


Adding TCP/IP

If you don't see TCP/IP listed, you will need to install this protocol. You can do so by clicking the "Add" button below the component window. Select "protocol" button as shown below.

Patriot GearBox

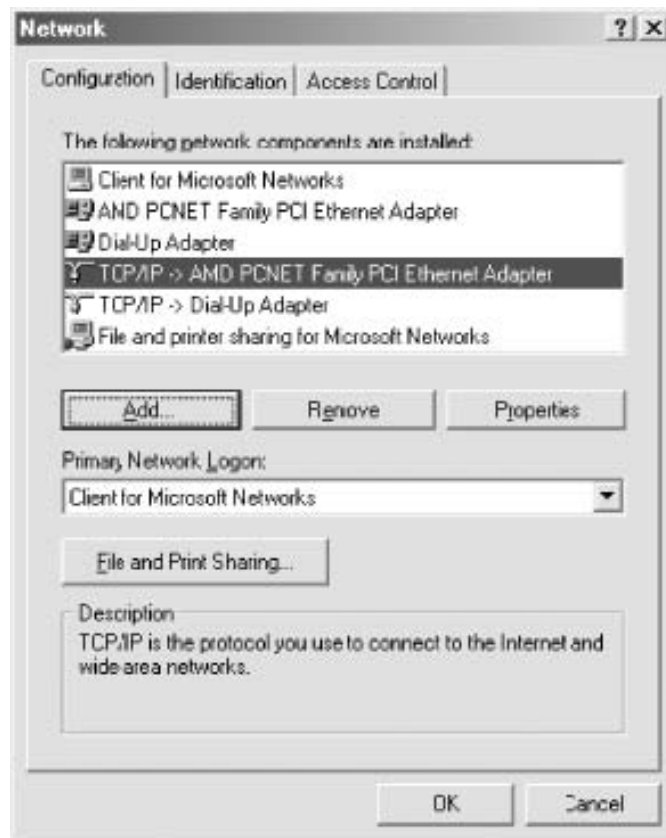
Network Storage Adaptor



Select Microsoft and protocol TCP/IP, then click OK. After doing so, you will be returned to the network dialog. Click OK to close the dialog box, and Windows will install the necessary components.

NOTE: A windows installation CD may be required for this installation.

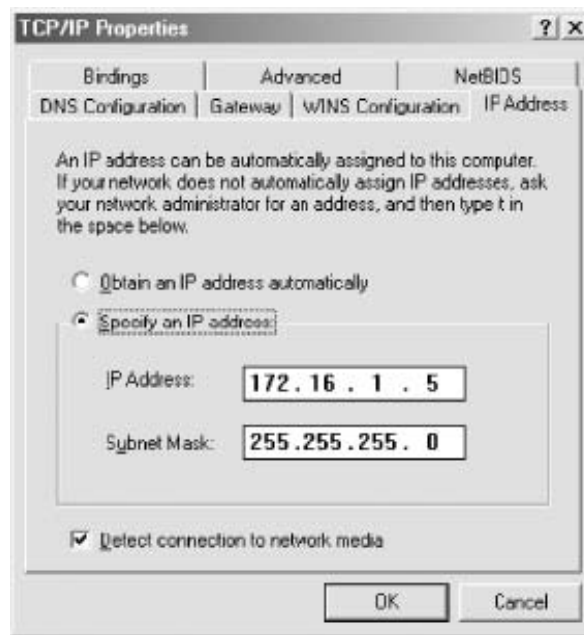
Configuring TCP/IP: Select the TCP/IP protocol linked to the networking device that will be accessing the Samba network. If you have only one networking device, simply click the TCP/IP item. Now click the Properties button to open the TCP/IP Properties dialog. You should see something similar as bellow:



IP Address: The IP Address tab is shown as bellow

Patriot GearBox

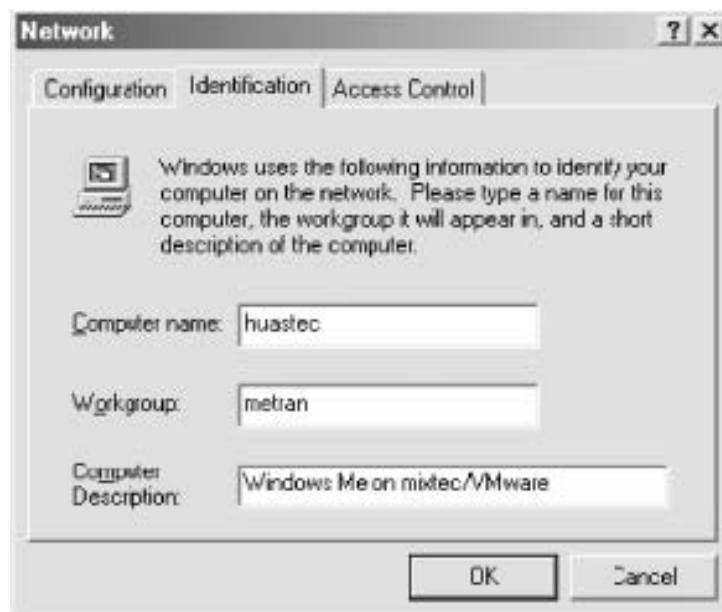
Network Storage Adaptor



If you use DHCP on your network to provide IP addresses automatically to Windows systems, select the "Obtain an IP address automatically" radio button. Otherwise, click the "Specify an IP address" and manually enter your IP address and subnet mask.

Setting the Computer Name and Workgroup

Click on Identification tab as shown below:



Enter your Computer name, Workgroup name and Computer Description then click on "Ok" to confirm.

Patriot GearBox

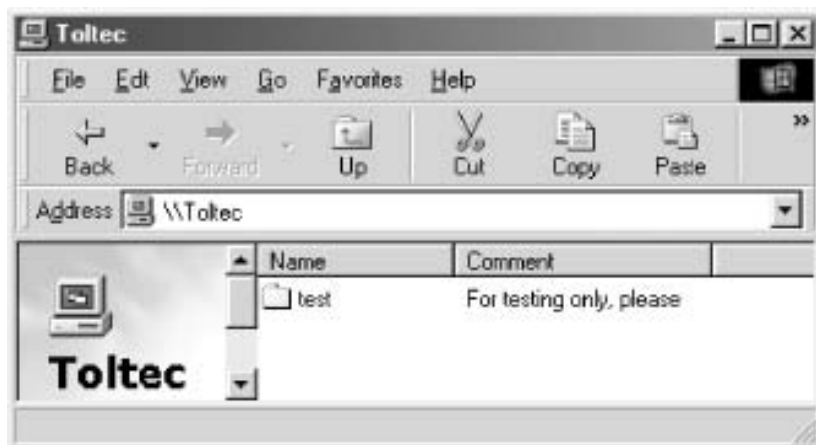
Network Storage Adaptor

Accessing the Samba Server from Windows 95/98

Double-click the Network Neighborhood icon on the desktop. You should see your Samba server listed as a member of the workgroup, as shown bellow:



Double-clicking the server name will show the resources that the server is offering to the network, as shown bellow



Accessing the Samba Server from Windows Me

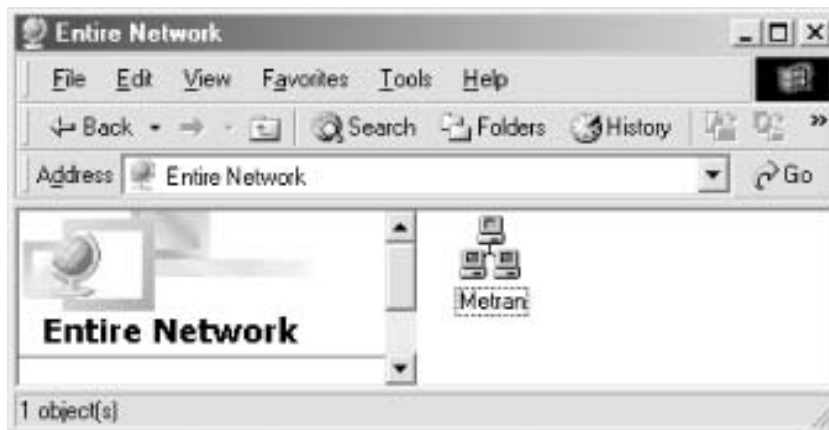
Double-click the My Network Places icon on the desktop. You should see the test shared directory as shown in bellow

Patriot GearBox

Network Storage Adaptor



Double-click the Entire Network icon, and you should see an icon for your workgroup, as shown in bellow



2.4.3 Setting Up Windows XP Computers

Networking Components

Go to the Control Panel and double-click the Network and Dial-up Connections icon (in classic view). You should see a Local Area Connection icon. If there is more than one, identify the one that corresponds to the network adapter that is connected to your Samba network. Right-click the Local Area Connection icon and click the Properties button. (Or double-click the Local Area Connection icon and then click the Properties button in the dialog box that comes up.) You should now be looking at the Local Area Connection Properties dialog box, as shown in bellow

Patriot GearBox

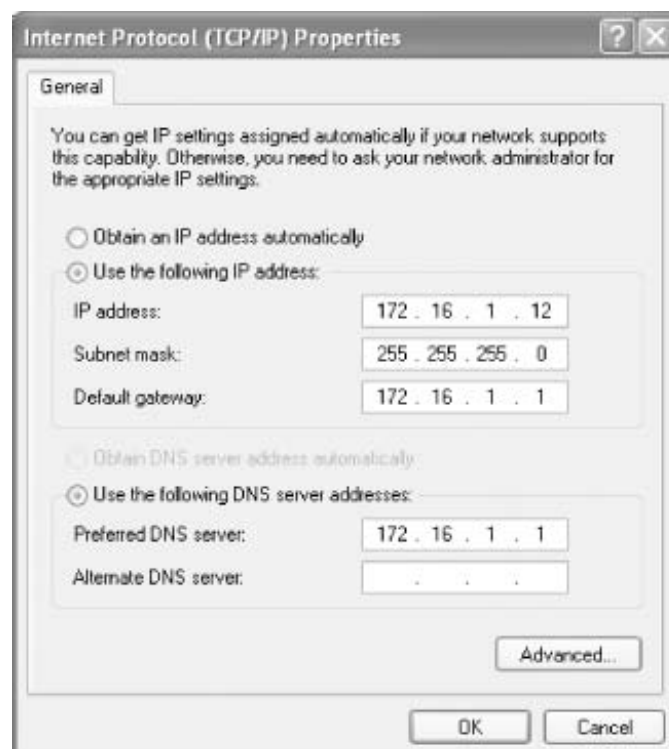
Network Storage Adaptor



You should see at least the following two components: Client for Microsoft Networks & Internet Protocol (TCP/IP)

Configuring TCP/IP

Click Internet Protocol (TCP/IP) and then Properties to open the Internet Protocol (TCP/IP) Properties dialog box, shown as bellow



Patriot GearBox

Network Storage Adaptor

If you are using DHCP on your network to assign IP addresses automatically, make sure "Obtain IP address automatically" is selected. Otherwise, select the "Use the following address:" to specify static IP settings.

Computer and Workgroup Names

From the Control Panel, double-click the System icon to open the System Properties dialog box. Click the Computer Name tab shown as follow:



To change your computer name and network workgroup, click on Change and specify the changes under Computer Name Changes page as follow:



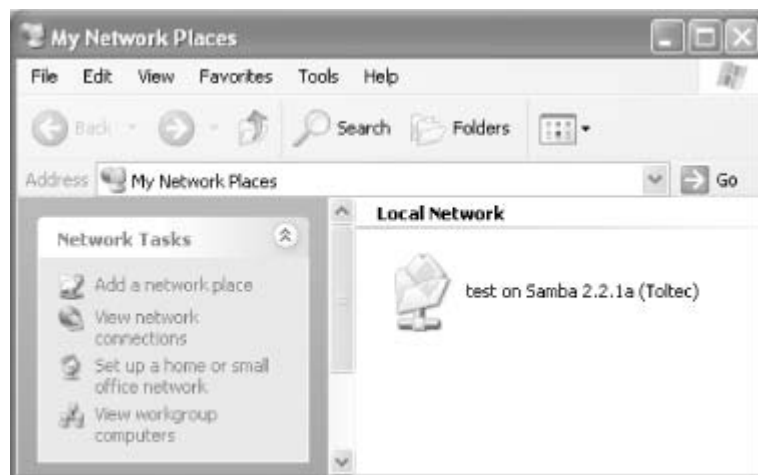
Patriot GearBox

Network Storage Adaptor

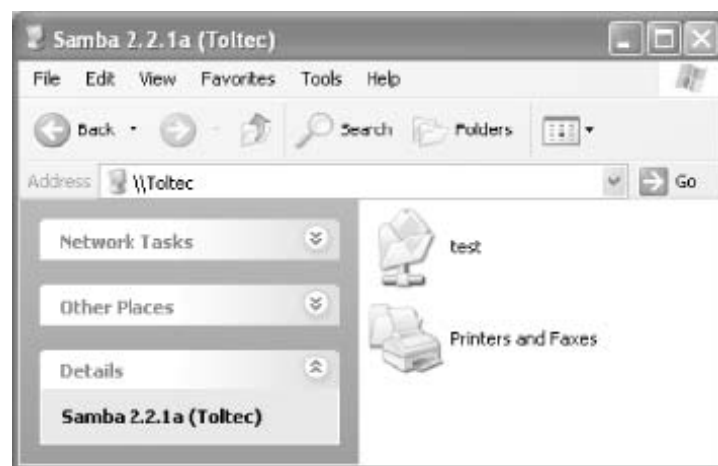
The workgroup name should be the same as the Gearbox's workgroup name.

Connecting to the Samba Server

Click My Network Places, and you should see a folder icon for the *test* directory shown as follow.



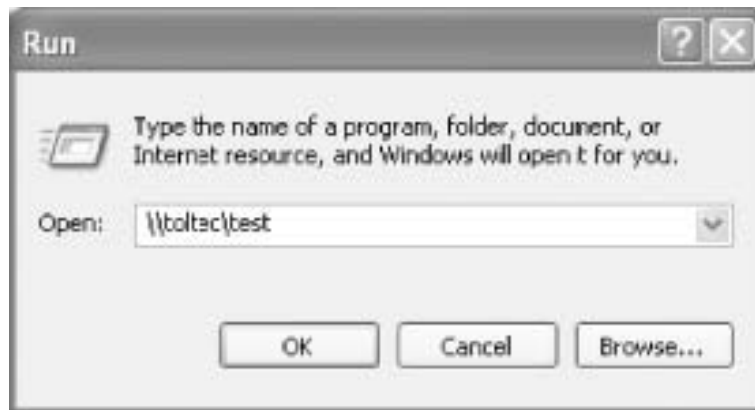
Click View workgroup computers in the Network Tasks box at the left of the window. You should see your Samba server listed as a member of the workgroup. Double-click its icon, and you will see attached drives and printer if specified.



If you don't see the server listed in the workgroup, try select "Run..." from the Start menu as follow and type `\\to/tec\test`, as shown in bellow, and use your server's hostname instead of "Toltec".

Patriot GearBox

Network Storage Adaptor



2.5 FTP server

File Transfer Protocol (FTP) is a network protocol used to transfer data from one computer to another over the Internet. You can access your data on the road with any internet connection or share your data with distant friends and families.

2.5.1 Configure FTP server

Connect to storage SMB page ,the page as bellow:



Status

IP Config

Maintenance

SMB Server

FTP Server

BitTorrent

Printer

Media Server

Disk Utility

Languages:

select

FTP Configuration

FTP Port: 21 (21 or 1025-65500) [Apply]

AccFTP Codepage: English [help] [Apply]

Account List

[User Name]	[Password]	[Access]	[En/Disable]
anonymous	-----	RO	ENABLED

Patriot GearBox

Network Storage Adaptor

FTP port: configure port number, port range is 1025 to 65500 and default port is 21.

If your computer is behind a firewall, remember to forward your port to your GearBox.

FTP code page: configure FTP server code page

Central Europe (CP1250)

Croat, Czech, Hungarian, Polish, Romanian, Slovak, Slovene and Sorbian.

Cyrillic (CP1251)

Bulgarian, Belorussian, Macedonian, Moldavian, Russian, Serbian and Ukrainian.

Latin I (CP1252)

Albanian, Danish, Dutch, Faroese, Finnish, French, German, Icelandic, Irish, Italian, Norwegian, Portuguese, Spanish and Swedish.

Baltic (CP1257)

Estonian, Latvian, Lithuanian.

NEW: create FTP share account and password, default account is "guest"

Modify FTP Account:



Status

IP Config

Maintenance

SMB Server

FTP Server

BitTorrent

Printer

Media Server

Disk Utility

Languages:

select

Modify FTP Account

Account

anonymous

Password

(Max 12 Bytes)

Modify

Access

☒ Read Only

☐ Read/Write

Folder List

Create

Rename

Delete

admin

public

guest-share

BT

Sharing List

Back

PUBLIC

Password: password of FTP account

Access control: read only / read and write rights

Folder List is all of exist folder on storage

Sharing List is shared folder of FTP account .

To share folders, select folder from list and add to Sharing List .

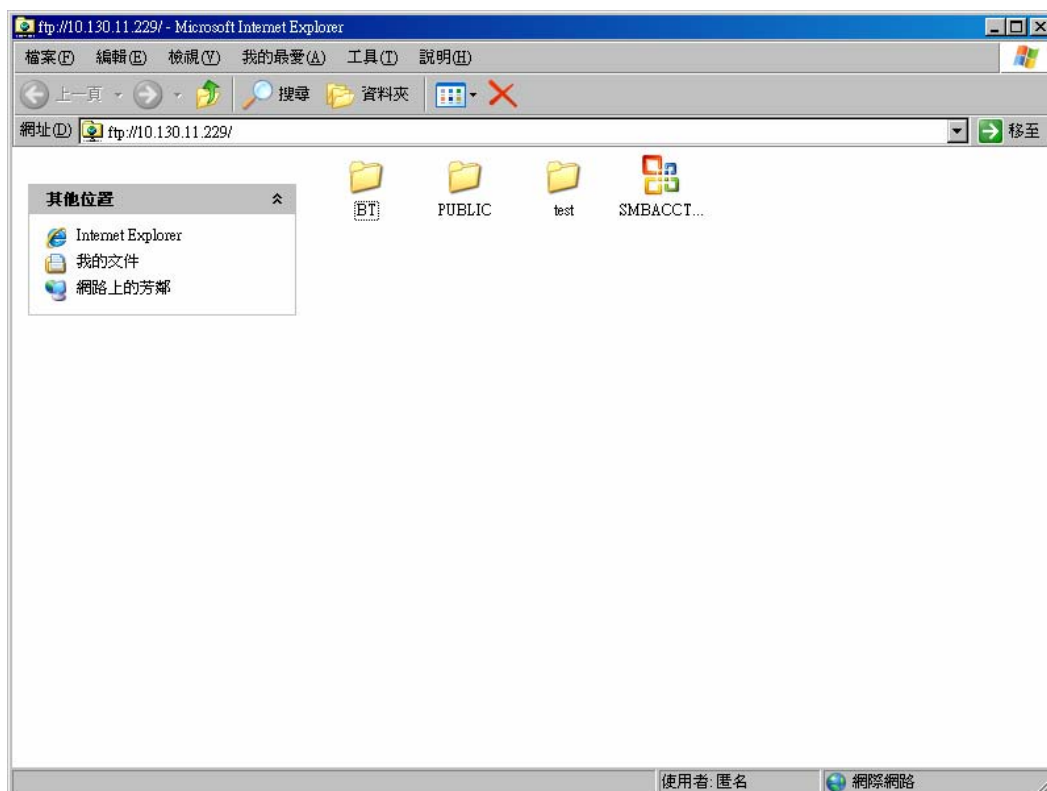
Folder manage: create / rename /delete folder

Enable/ Disable: this button can enable/disable FTP account

Delete: delete FTP account

2.5.2 Using FTP Within Microsoft Internet Explorer 7

Open Internet Explorer 7, type in the following: **ftp:// IP address (ex: ftp://10.130.xxx.xxx)**



3. IE 7 will display a list of files and folders from the FTP domain

4. To quickly save a file locally, right-click the file and select "Save Target As..."

5. To manage the remote and locals files more completely, click the 'Page' menu button on the right-hand side of the IE 7 browser window and select the option, "Open FTP Site in Windows Explorer" 5.you can now drag-n-drop the files from

remote FTP server to local file system easily

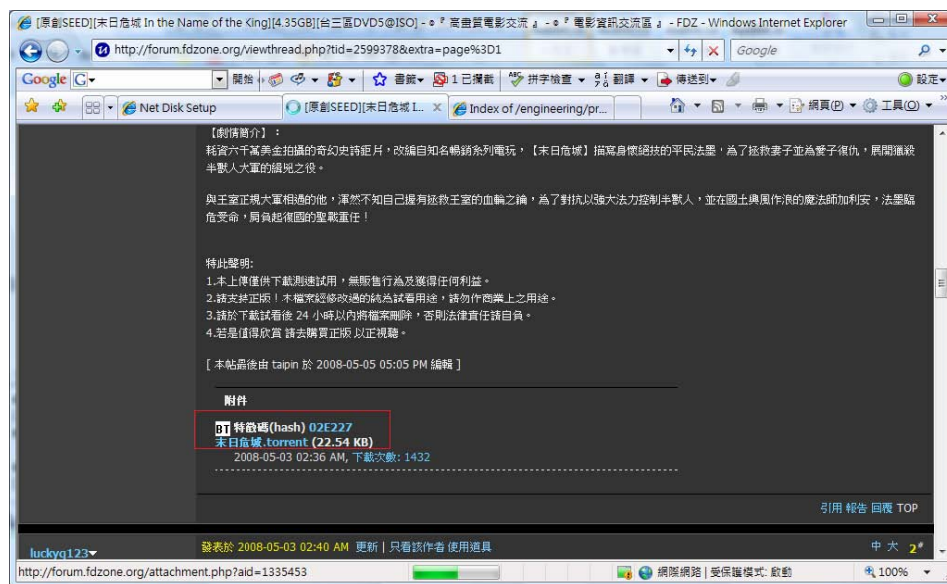
2.6 BitTorrent

2.6.1 What is BitTorrent

BitTorrent is a peer-to-peer file sharing (P2P) communications protocol. BitTorrent is a method of distributing large amounts of data widely without the original distributor incurring the entire costs of hardware, hosting, and bandwidth resources. Instead,

2.6.2 Using Bit Torrent client

1. Download torrent file to PC



2. Browse and select torrent file to upload Download Queue

3. Your download should start after a few seconds.

4. When torrent download percentage reaches 100%, the data will store to designated download path. You can then access file from SMB client or FTP client on the PC.

Patriot GearBox

Network Storage Adaptor



Status IP Config Maintenance SMB Server FTP Server BitTorrent Printer Media Server Disk Utility Languages: select	BT Configuration	
	System ID	52333238322d312e3531612d30303030303000
	Download Path	admin Apply
	Server Port	6881 1025 ~ 65535 (Default: 6881) Apply
	Upload Limit	0 KB (0 is unlimited)
	Download Limit	0 KB (0 is unlimited)
	Mail Notification	Mail Setup
	Upload Your Torrent File	
	瀏覽... Upload	
	Download Queue	

All Rights Reserved, 2009 **PATRIOT**

5. Bit Torrent Configurations, **System ID** shows torrent ID and **Number of the Downloads** shows number of active torrents.
6. Server Port: BT server upload port
7. Upload Limit: BT server upload throughput control
8. Mail notification: when user stop or remove torrent, storage will send the mail alarm to administrator email box.



Status IP Config Maintenance SMB Server FTP Server BitTorrent Printer Media Server Disk Utility Languages: select	BitTorrent Mail Notification	
	Enable	☐
	SMTP Server	
	Sender	
	Recipient	
	Mail Authentication	☐
	User Name	
	Password	
	Apply Return	

All Rights Reserved, 2009 **PATRIOT**

Patriot GearBox

Network Storage Adaptor

Enable: enable or disable email notification.

SMTP Server: SMTP server address or IP (ex: ms48.url.com.tw)

Sender: email of sender (ex: sender@ ms48.url.com.tw)

Recipient: email of recipient (ex: recipient@ ms44.url.com.tw)

Mail Authentication: enable or disable Mail Authentication

User Name: enter your email user name

Password: enter your email password

9. **Torrent queue Path:** open file manager by Samba (Network Neighborhood)

FTP: open file by default FTP client of PC (default path is public)

Restart: you can select a torrent to restart from download queue

Pause: pause you can select a torrent to pause from download queue

Show: show all BT information

Remove: you can select a torrent to pause from download queue

2.6.4 Mail Notification

Enable: enable /disable mail notification check box

SMTP server: SMTP server address

Sender: the address which send from.

Recipient: the address which send to.

Mail Authentication: enable /disable mail authentication check box

User name: email name

Password: email password

2.7 Disk Utility

Format Disk: option will erase ALL DATA in the drive.

Sleep Time: configure time for Hard Driver go into sleep mode

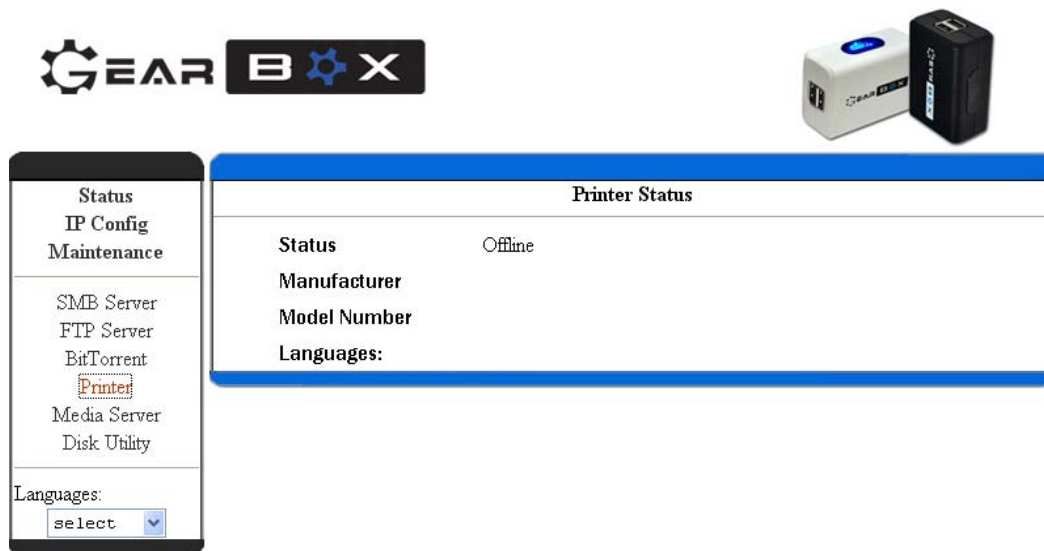
Scan Disk: the scan disk utility will check hard drive integrity or any bad HD cells.

Patriot GearBox

Network Storage Adaptor

2.8 Print server

First plug in your USB printer into the Gearbox with provided USB cable. If you log in to the web UI, the printer status should still say “offline”. Gearbox will recognize the printer and activate the printer server service once an IP is assigned to the unit. The network printer will require a **static IP address** to be seen on your network by the computer



All Rights Reserved, 2009 **PATRIOT**

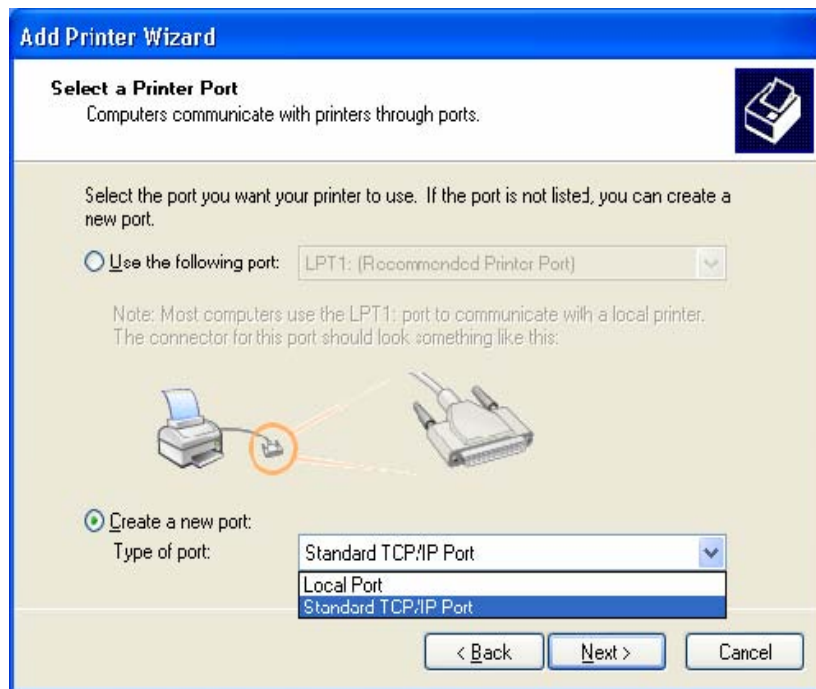
1. Click **Start** and select **Printers and Faxes**.
2. Under Printer Tasks, click **Add a Printer**. Click **Next**.



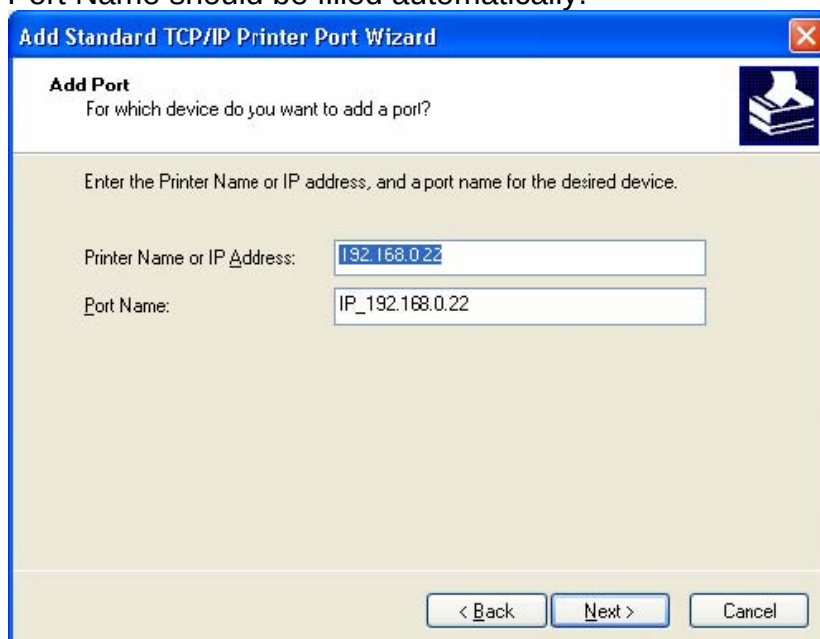
Patriot GearBox

Network Storage Adaptor

3. Select the **Local Printer attached to this computer**
4. **UNCHECK** “Automatically detect and install my Plug and Play printer” check box.
5. Click **Next**.
6. Select the **Create New Port** button.
7. From the **Type of port:** drop down list choose **Standard TCP/IP Port**. Click **Next**.



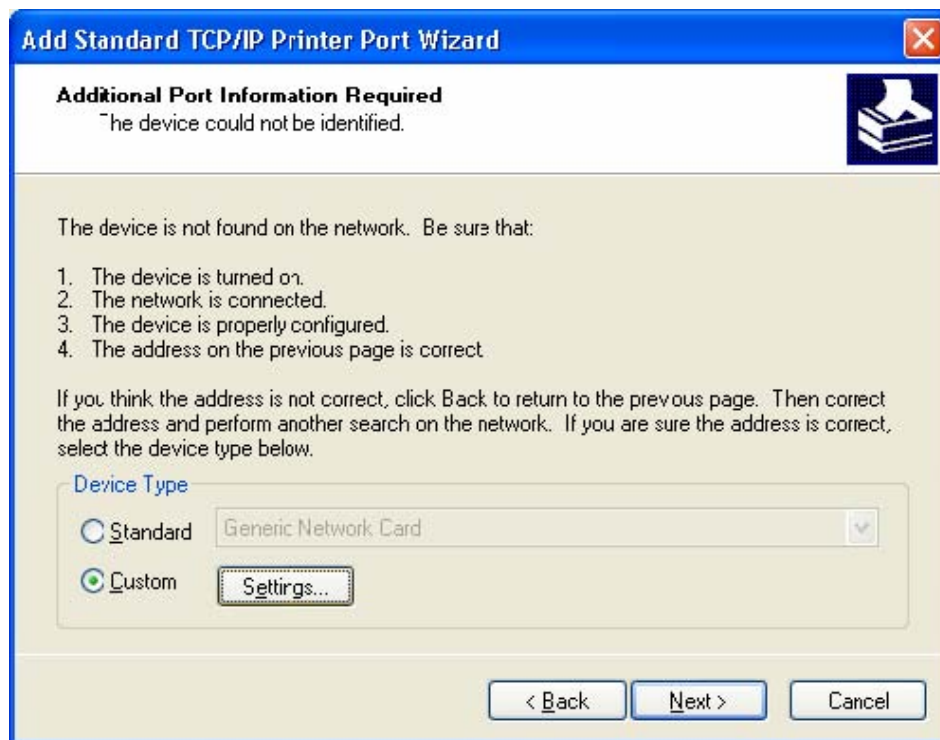
8. In the **Printer Name or IP Address**, enter the **IP Address** of the device.
Note: Port Name should be filled automatically.



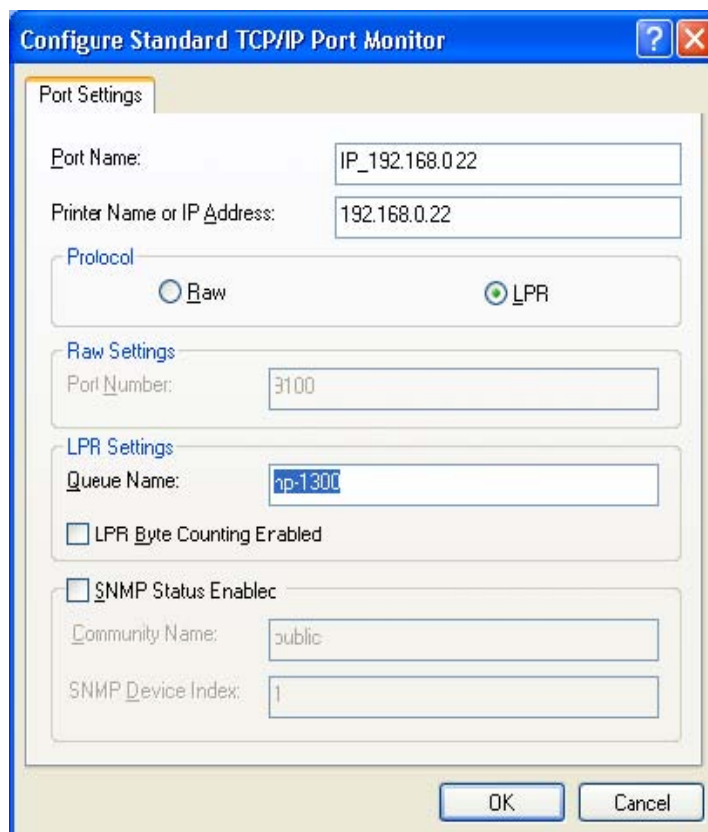
10. Select Custom and click on “Settings...”

Patriot GearBox

Network Storage Adaptor



11. Select LPR under Protocol and enter a queue name.



Note: If you receive an error message "LPD server did not respond as expected ...", click **Cancel**. Attempt to reenter the IP Address or Print Queue name. Click **OK** again. If this process fails, the device may not support LPR printing. You should stop

Patriot GearBox

Network Storage Adaptor

now and contact the manufacturer for further assistance.

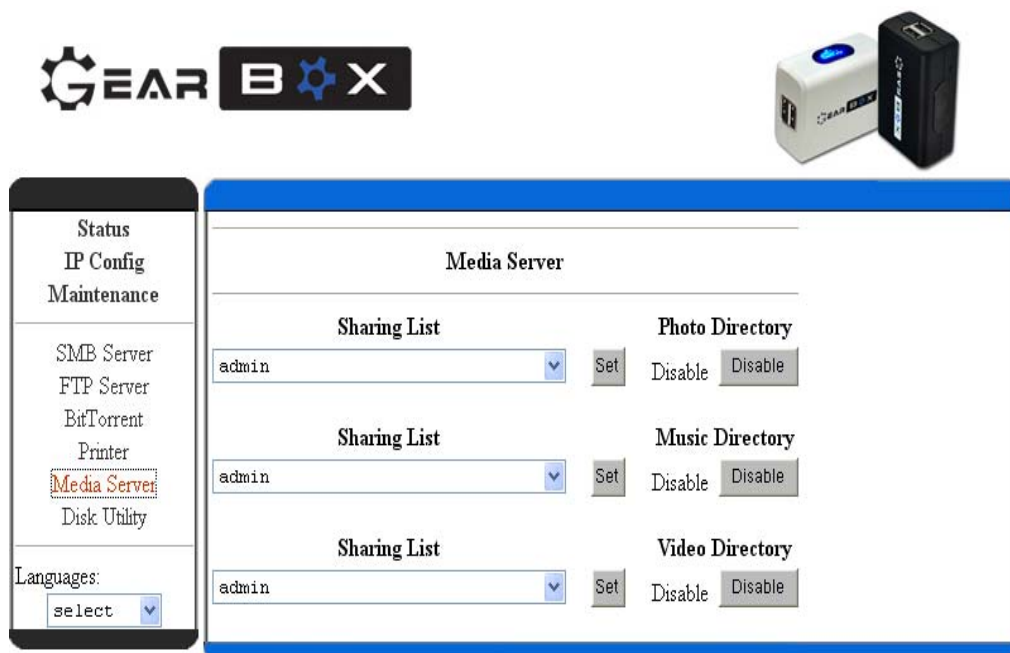
12. You are now ready to install the driver. Click **Have Disk**. Click **Browse**. Locate and select the .INF file for the device. You may need to browse to the CD or to the folder on your computer where you have the device driver downloaded. click **Next** to proceed.

Note: If you are prompted to replace or keep existing driver, click on **Keep Existing Driver**. Click **Next**.

13. When asked to print a test page, click **No**. Click **Next**. Click **Finish**.

Note: At this point, you can set your printer as the DEFAULT PRINTER.

2.9 Media Server



All Rights Reserved, 2009 **PATRIOT**

1. Select Media Server sharing folder.
2. Double click set button.
3. Make sure media server (storage) is same subnet with media player (Xbox 360, PS3 and iTunes).
4. Browse content from iTunes (music only) , Xbox 360 and PS3 (music ,photo video)

Patriot GearBox

Network Storage Adaptor

UPnP Media server with XBOX 360

To access media files—including audio, video and pictures—from storage, you need to connect your XBOX 360 to your home network.



1. Connect your console to your home network.
2. Click Media Server page of storage, and set up sharing list (photo, music, and video).
3. When finish, GearBox's Media Server of should automatically start.
4. XBOX 360 will search for devices on your network.
5. Your Music, Pictures and Video should now appear in your XBOX 360 under media server.
6. Find the media content that you want to play, and then select Play.

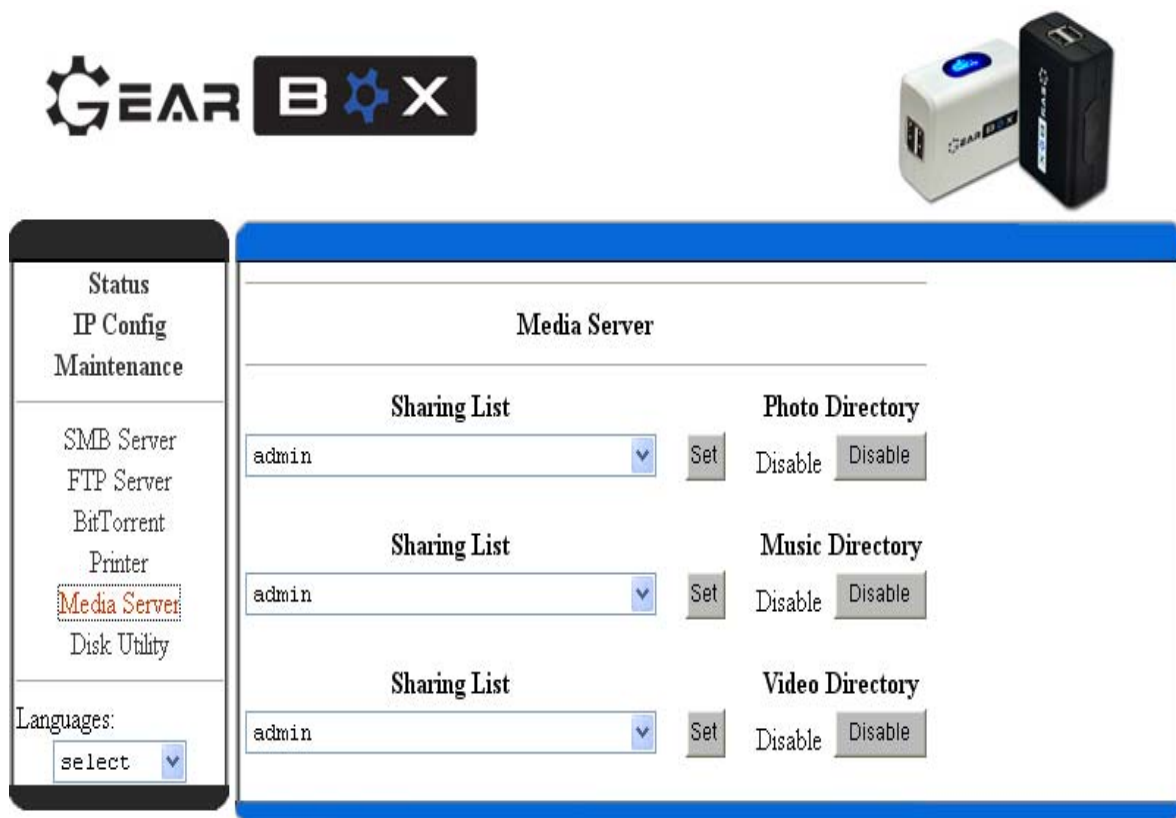
Patriot GearBox

Network Storage Adaptor

UPnP (Media server with PS3)

On your Storage:

Click Media Server page, and set up sharing list (photo, music, and video)



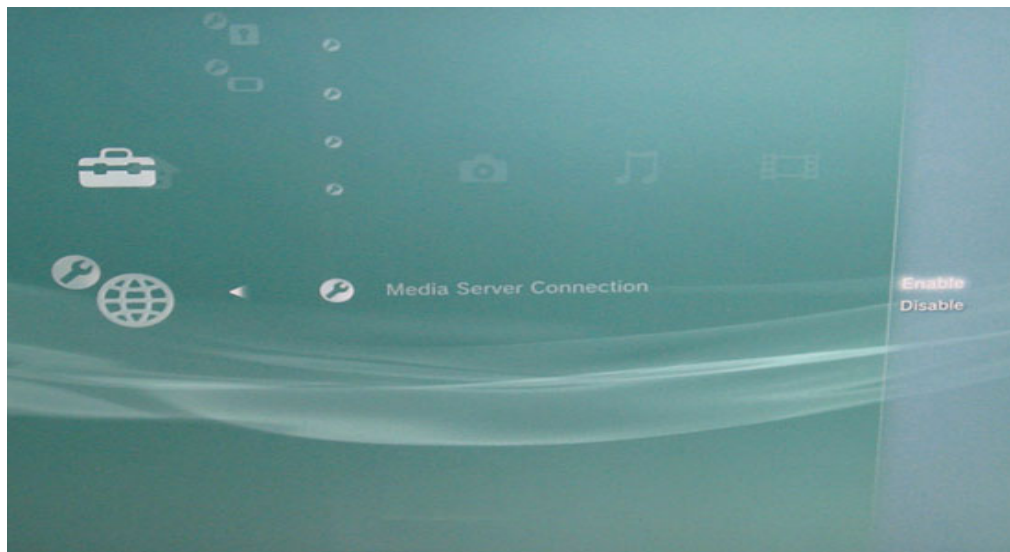
All Rights Reserved, 2009 **PATRIOT**

On your PS3:

1. Go into the PS3's Settings menu and navigate to Network Settings - Media Server Connection, and select Enabled. This allows the PS3 to detect networked device running Universal Plug and Play (UPnP) server software.

Patriot GearBox

Network Storage Adaptor



2. When you turn on the PS3™ system, Media Servers on the same network are automatically detected and icons for the detected servers are displayed under

(Photo), (Music), and (Video).

3. Select the icon of the DLNA Media Server that you want to connect. All available folders and files that can be played by the PS3™ system will be displayed.



4. Select the file that you want to play.

Hints for PS3

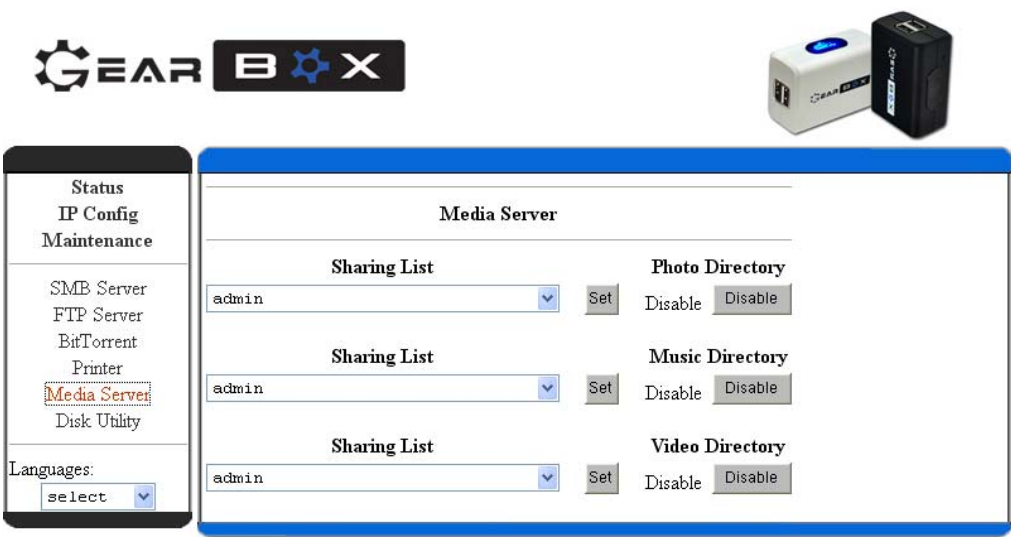
- The PS3™ system must be connected to a network. For details on network settings, see  (Settings) >  (Network Settings) > [Internet Connection Settings] in this guide.
- When the method of allocating IP addresses has been changed from AutoIP to DHCP under the settings for the network environment, perform another search for servers under  (Search for Media Servers).
- The DLNA Media Server icon is only displayed when [Media Server Connection] is enabled under  (Settings) >  (Network Settings).
- The folder names that are displayed vary depending on the DLNA Media Server.
- Depending on the DLNA Media Server, some files may not be playable or operations that can be performed during playback may be restricted.
- You cannot play copyright-protected content.
- File names for data that is stored on servers that are not compliant with DLNA may have an asterisk appended to the file name. In some cases, these files cannot be played on the PS3™ system. Also, even if the files can be played on the PS3™ system, it might not be possible to play the files on other devices.

How to use iTuner Server

- 1 Make sure your GearBox UPnP Media Server is on.
- 2 Select and set your music directory for iTune to see.
- 3 Access your music file in iTune under iTune server as follow..

Patriot GearBox

Network Storage Adaptor



All Rights Reserved, 2009 **PATRIOT**

